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THE UNIX NEWSLETTER

VOLUME 2 NUMBER 10

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JOSEPH F. OSSANNA

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AT LAST!

On February 27, 1978, Prentice-Hall will publish "The C Programming Language" by Dennis Ritchie and Brian Kernigan (\$9.95). Need we say more?

STILL RUNNING LATE

We are still playing "catch-up". This newsletter is being prepared in early February 1978 and is the last issue of Volume 2. The next issue, nominally December-January, will be mailed before the end of February. Enclosed with that issue will be an invoice for Volume 3 (1978).

SOFTWARE DISTRIBUTION

We spoke too soon, in the last issue, about catching up in January. We had a disk failure which took both the newsletter and the software distribution off the air for the entire month of January. No copies of the Toronto Distribution have been mailed as yet. Mailings will resume soon, we hope.

TYPESETTER SIMULATION

This page appears twice in this issue. The first copy is the usual hototypesetter output. The second copy is the product of the Toronto typesetter simulator for the Versatec.

The spacing between characters in the Versatec simulation does not appear correct due to the fact that the phototypesetter is mounted with the Sovran font and therefore the Toronto software is taking those font widths into account in calculating its spacing even though it is printing using Roman fonts.

MOVING

Please note the new mailing address for Mel Ferentz. Editorial work will shift to Rockefeller University, the mailing list will remain at Brooklyn College, while typesetting and software distribution will continue to be done at CUNY/UCC.

The Rockefeller University has agreed to act as fiscal agent for the Users' Group. All checks, whether for tapes, subscriptions, mailing charges, or any other purpose should be made payable to "The Rockefeller University". The new invoice form, which is being prepared for the 1978 billing will reflect this change.

In order to assure proper delivery, all mail to the new address should be addressed to "Box 8".

NEW YORK MEETING

By this time you should have received, and returned, the form for reserving rooms at Columbia University for the New York Meeting. The rooms in the Columbia University dorms must be reserved, with deposit by the end of February. If you wish a room, but cannot generate a check in time, just send the form back, to "Box 8", marked "check will follow" and we will advance the money to Columbia for you.

Checks may be made out either as indicated on the reservation form or to the new fiscal agent.

Address editorial material, payments, and software submission to

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Subscription requests and address changes should be addressed to

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The IMSL Library for PDP-11 Computers

The IMSL Fortran Subroutine Library in mathematics and statistics, in use on over 500 large scale computers, is now available for the PDP-11. The library is used by university, governmental, and industrial organizations for building application software in science and engineering. The library provides general purpose "building blocks" callable from users' programs.

Library subprograms are divided into chapters according to their function. User documentation chapter titles are:

Analysis of Experimental Design Data	Mathematical & Statistical Special Functions
Basic Statistics	Non-Parametric Statistics
Categorized Data Analysis	Observation Structure (Multivariate Statistics)
Differential Equations; Quadrature; Differentiation	Regression Analysis
Eigensystem Analysis	Sampling
Forecasting; Econometrics; Time Series	Utility Functions
Generation and Testing of Random Numbers	Vector-Matrix Arithmetic
Interpolation; Approximation; Smoothing	Zeros & Extrema; Linear Programming
Linear Algebraic Equations	

Library subscribers lease the library from IMSL on an annual (or longer) basis. Materials provided include

- (1) The Fortran source tape
- (2) One fully maintained and bound Library Reference Manual
- (3) The IMSL Numerical Computations Newsletter, distributed periodically
- (4) One bound and fully maintained General Information Manual

Subscription services include

- (1) The automatic distribution of new library editions containing new and/or improved routines (new tape and modification pages for the Reference Manual)
- (2) Maintenance of library elements and the Reference Manual between editions
- (3) Telephone or mail consultation on library usage
- (4) A mechanism for requesting new routines for future library editions

Considerations guiding development of the library include accuracy (algorithm selection and implementation), ease of usage, portability (identical subprogram names and calling sequences across hardware types) and maintenance of the library at the level of current numerical technology.

The PDP-11 version of the library is in single precision and is based on IMSL's current library for Xerox computers. Testing was performed on a PDP-11/70 under Digital Equipment Corporation's Fortran IV compiler. Anyone desiring additional information may contact

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